

### Amendments of the Claims:

A detailed listing of all claims in the application is presented below. This listing of claims will replace all prior versions, and listings, of claims in the application. All claims being currently amended are submitted with markings to indicate the changes that have been made relative to immediate prior version of the claims. The changes in any amended claim are being shown by strikethrough (for deleted matter) or underlined (for added matter).

Please cancel claims 1, 6 and 9 without prejudice or disclaimer.

1. (Cancelled)
2. (Cancelled)
3. (Previously amended) A recombinant DNA sequence comprising a DNA sequence that codes for an IIM protein, wherein a nucleic acid sequence of said recombinant DNA sequence is selected from the group consisting of
  - a) a cDNA sequence as shown in SEQ. ID. No. 1; and
  - b) a cDNA sequence as shown in SEQ. ID. No. 2.
4. (Cancelled)
5. (Previously amended) The recombinant DNA sequence of claim 3, wherein said IIM protein has an amino acid sequence selected from the group consisting of:
  - a) an amino acid sequence as shown in SEQ. ID. No. 3; and
  - b) an amino acid sequence as shown in SEQ. ID. No. 4.
6. (Cancelled)
7. (Original) A gene expression vector containing a recombinant DNA sequence encoding a *Trichoplusia ni* IIM protein sequence.
8. (Cancelled)

9. (Cancelled)
10. (Previously amended) The expression vector of claim 7, wherein said expression vector is a recombinant plasmid adapted for insertion into and transformation of a plant.
11. (Cancelled)
12. (Cancelled)
13. (Cancelled)
14. (Cancelled)
15. (Cancelled)
16. (Cancelled)
17. (Cancelled)
18. (Cancelled)
19. (Cancelled)
20. (Previously added) A transformed plant, comprising an expression vector, wherein said expression vector comprises a gene encoding a *Trichoplusia ni* invertebrate intestinal mucin (IIM) protein operably linked to an expression control sequence, such that said transformed plant is capable of expressing said IIM protein.
21. (Previously added) A method of producing a *Trichoplusia ni* IIM protein or peptide comprising:
- a) transforming a host cell with an expression vector comprising a promoter operatively linked to a nucleotide sequence which codes for a predetermined protein or peptide of a *Trichoplusia ni* IIM protein;
  - b) culturing said host cell under conditions such that said IIM protein is expressed in recoverable quantity;

c) lysing said host cell; and

d) recovering said IIM protein.

22. (Previously added) The method of claim 21 wherein said expression vector further comprises a gene encoding a transfer molecule such as glutathione-S-transferase.